FIG. 1

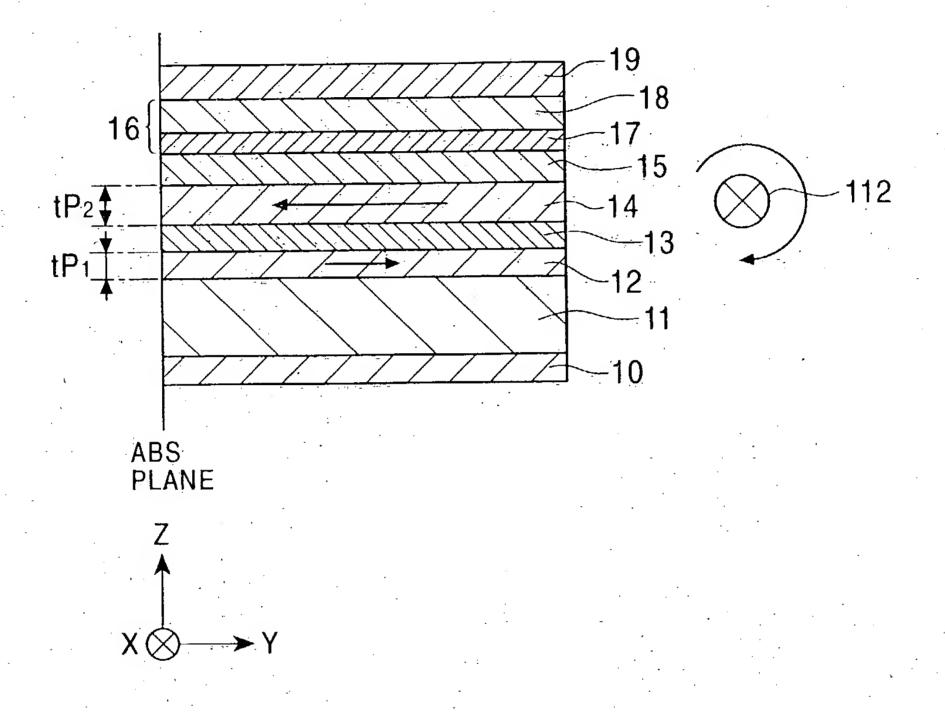


FIG. 2

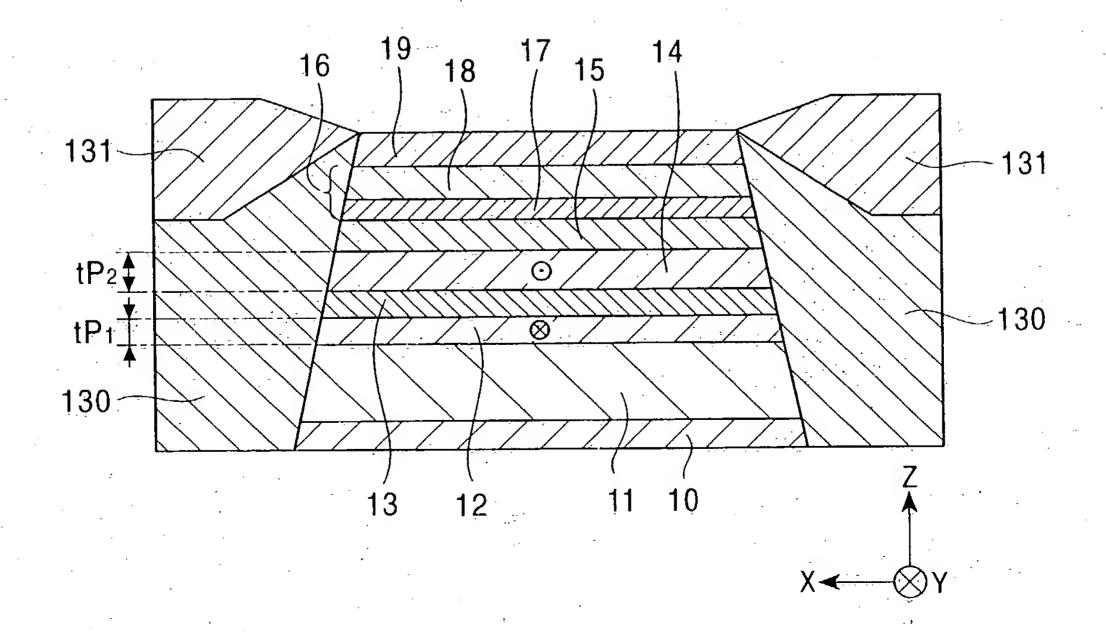


FIG. 3

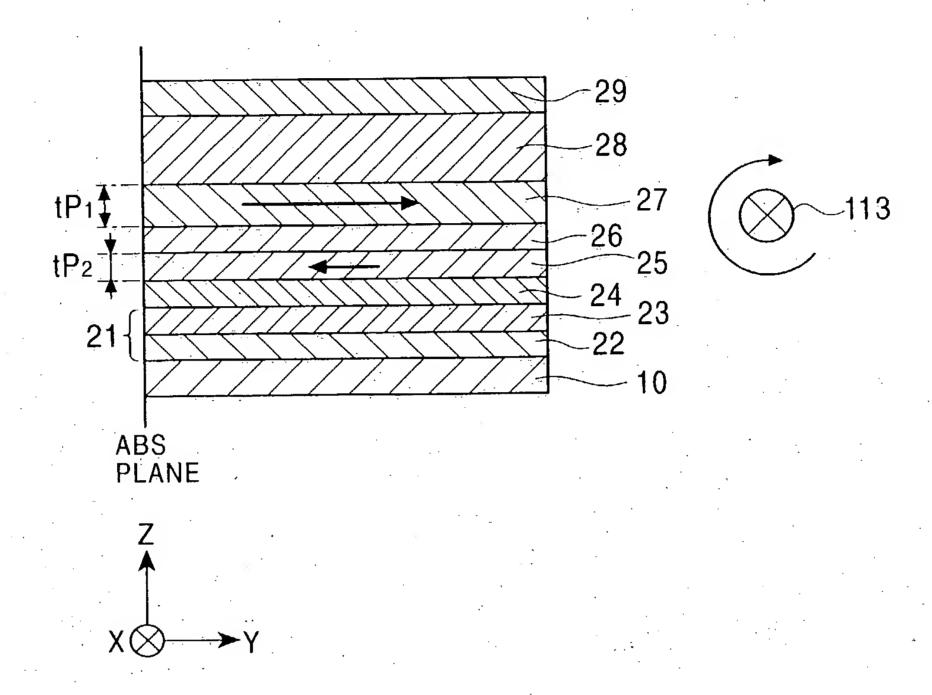


FIG. 4

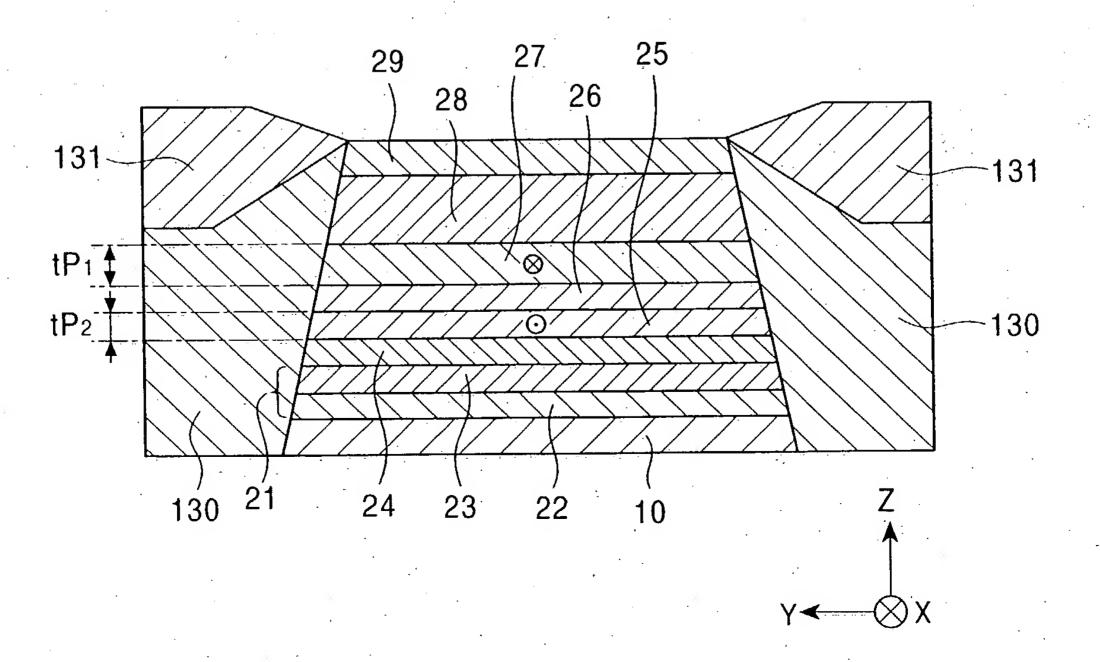


FIG. 5

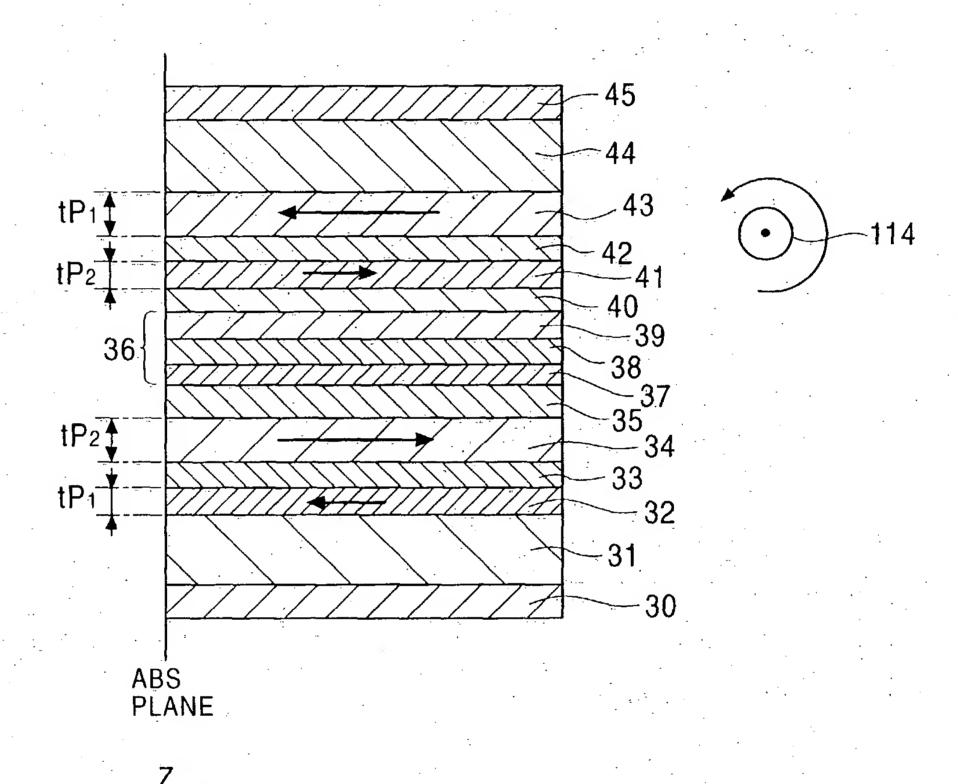
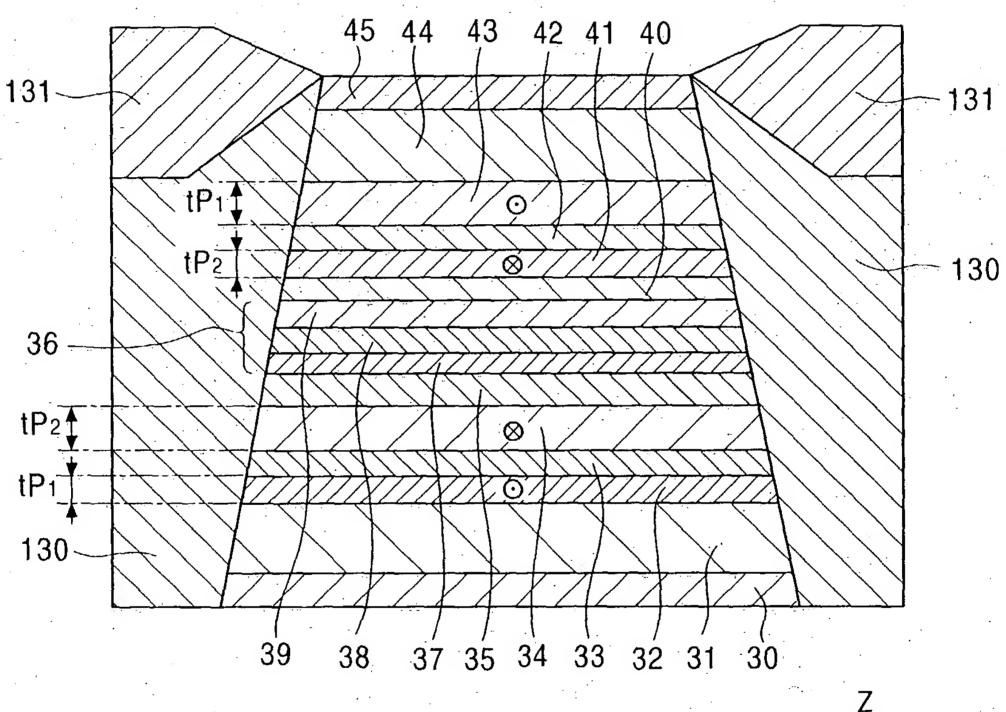


FIG. 6



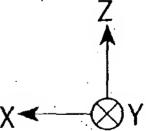


FIG. 7

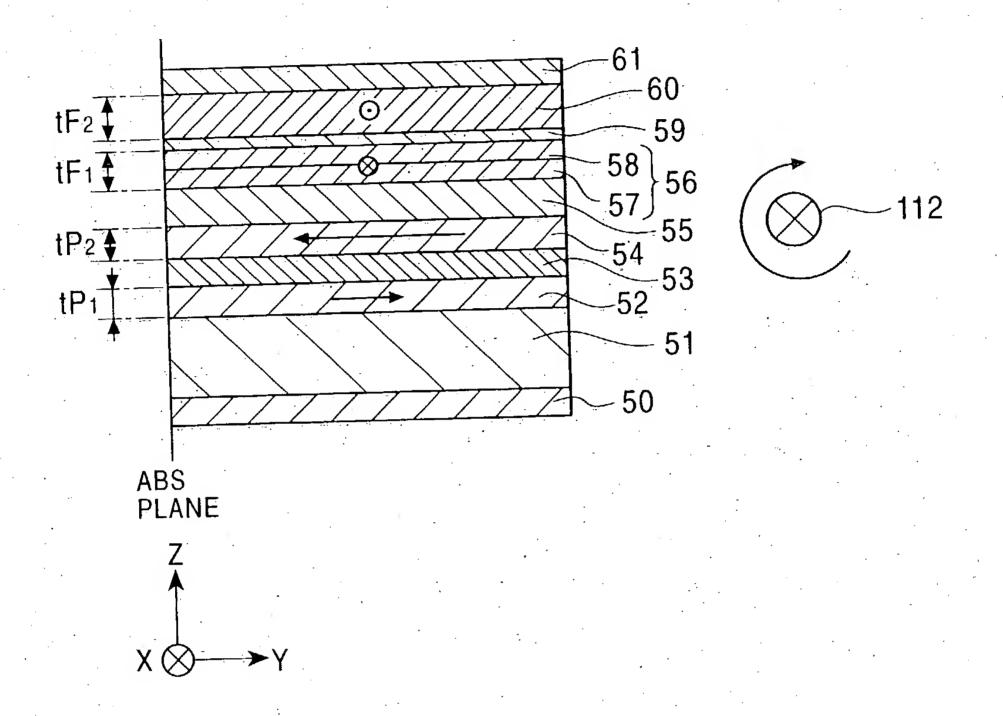
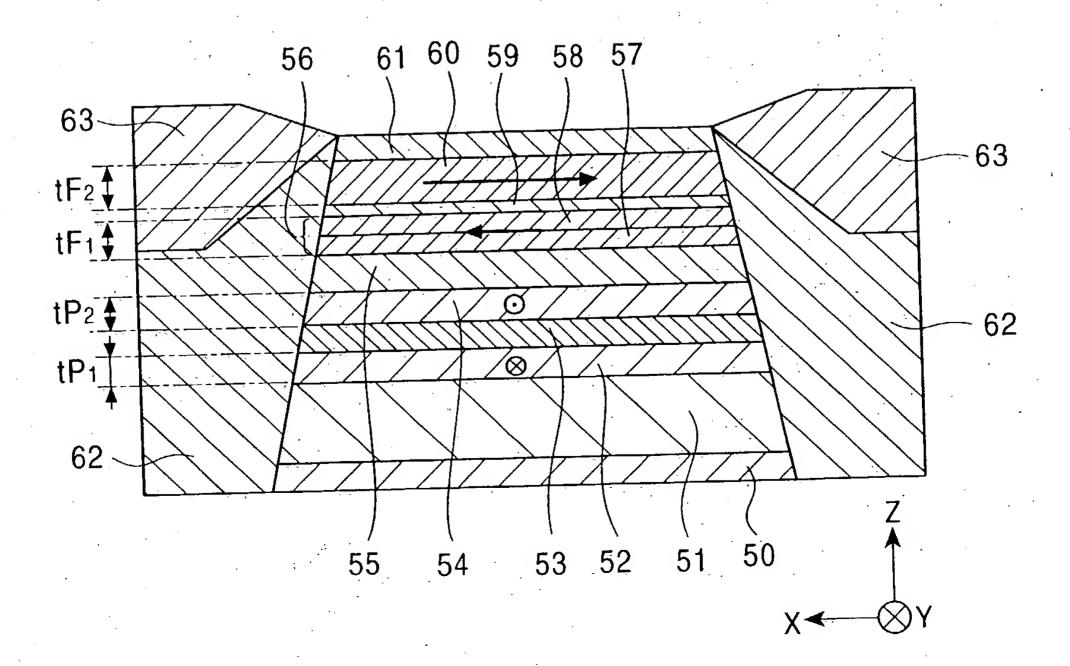


FIG. 8



6/.22

FIG. 9

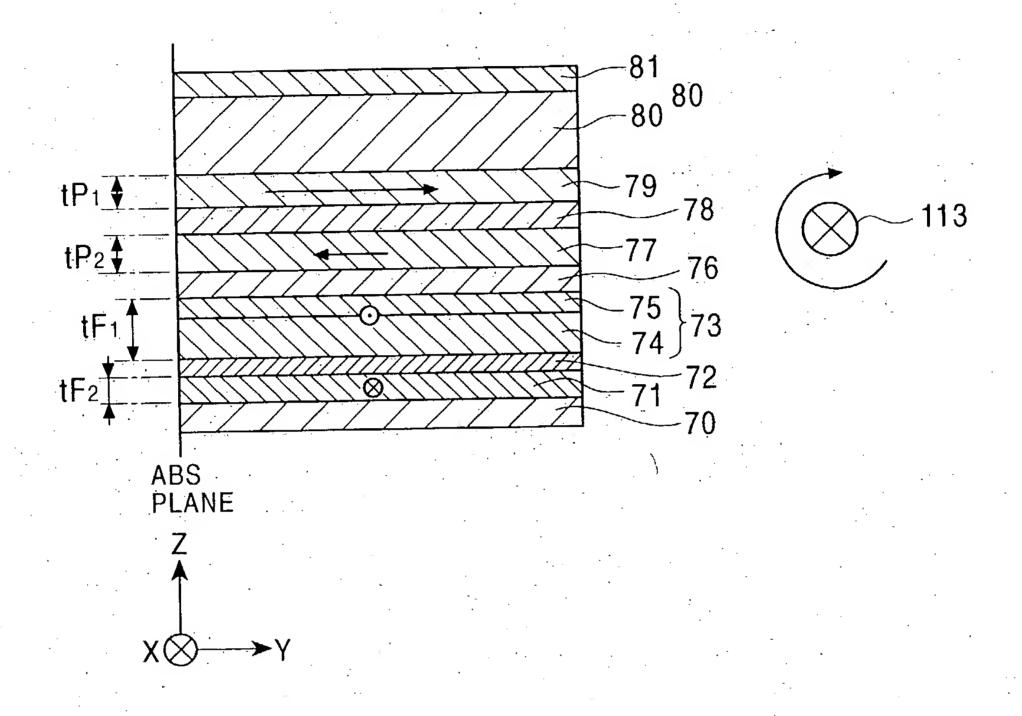


FIG. 10

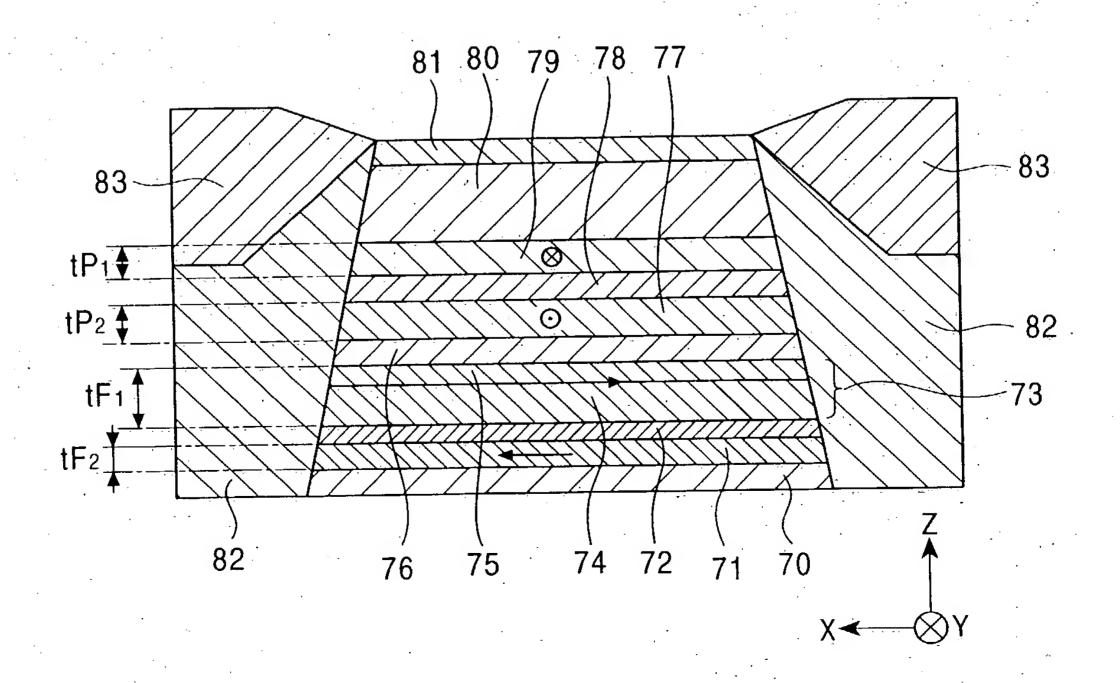


FIG. 11

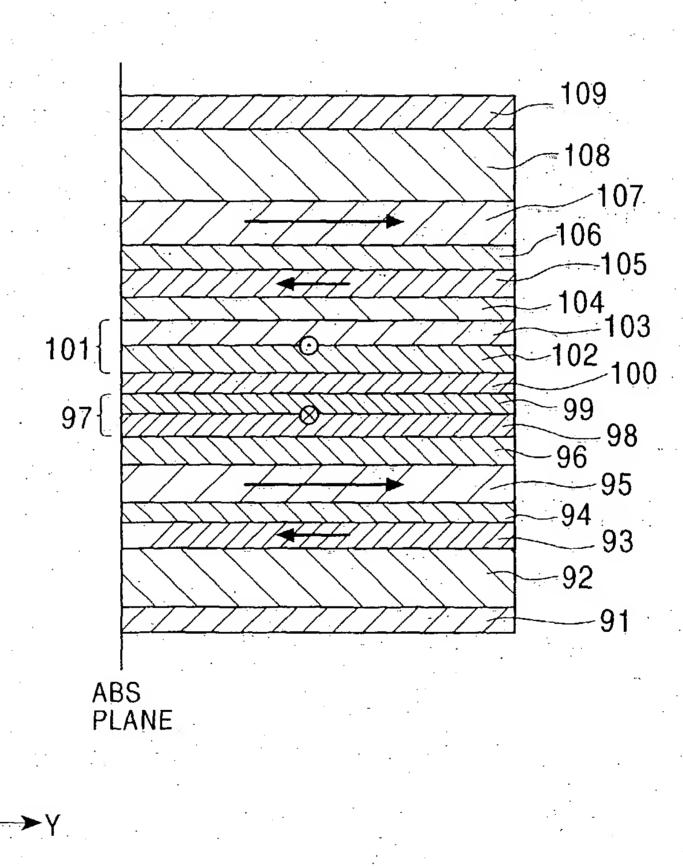


FIG. 12

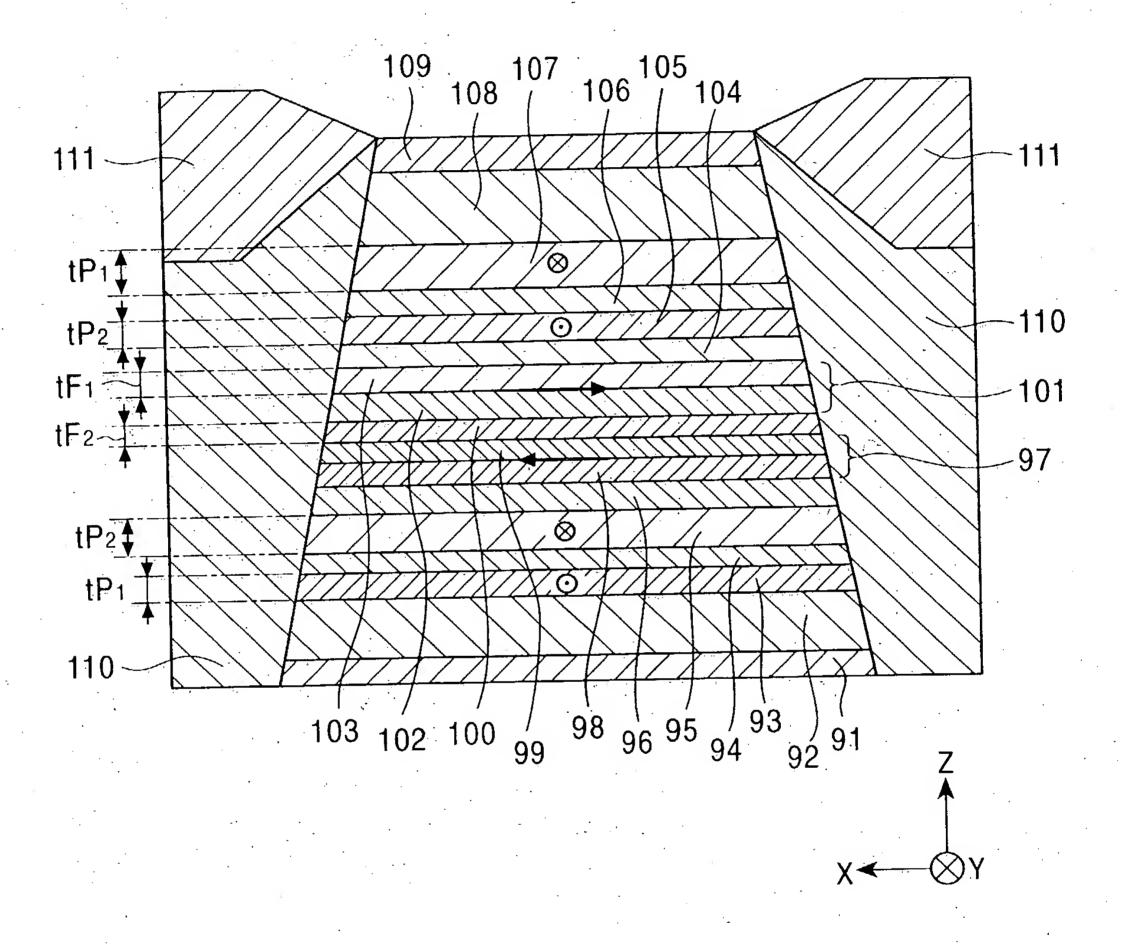


FIG. 13

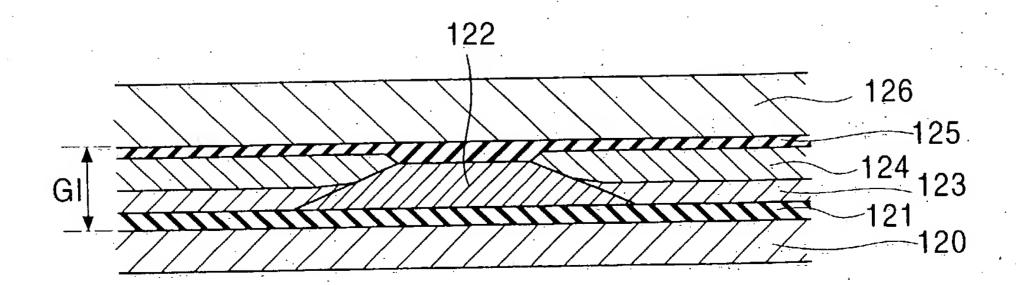
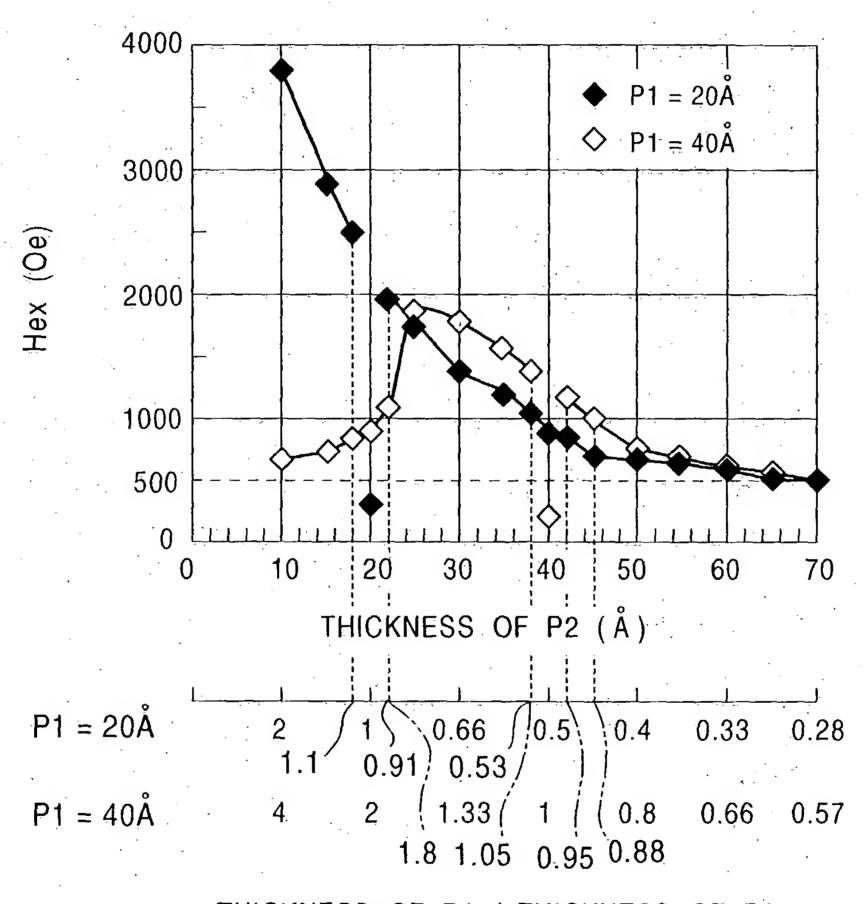


FIG. 14



THICKNESS OF P1 / THICKNESS OF P2

FIG. 15

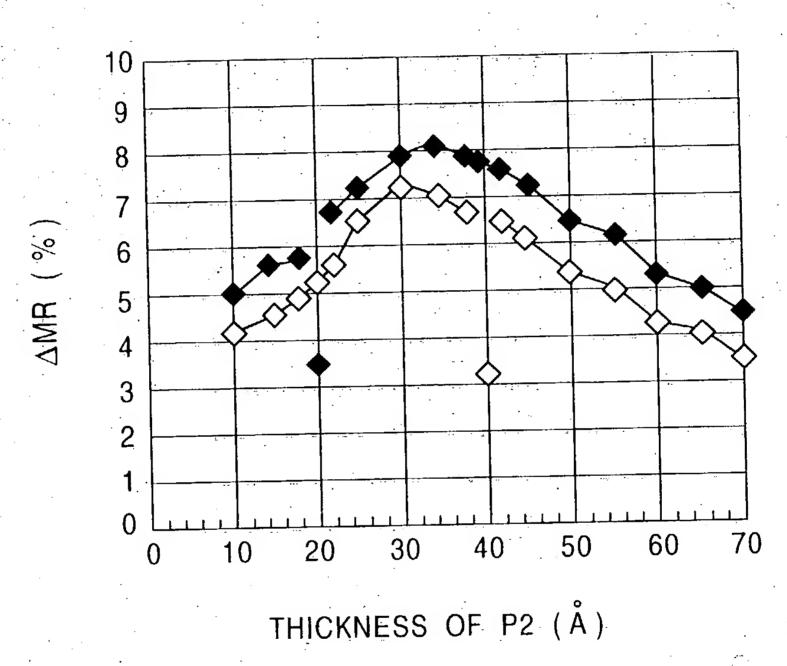
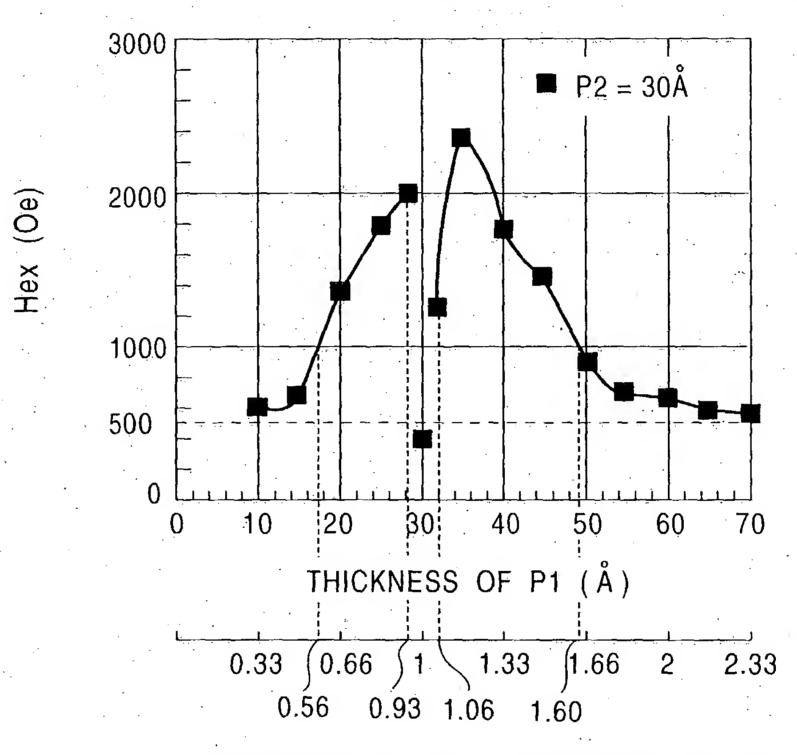
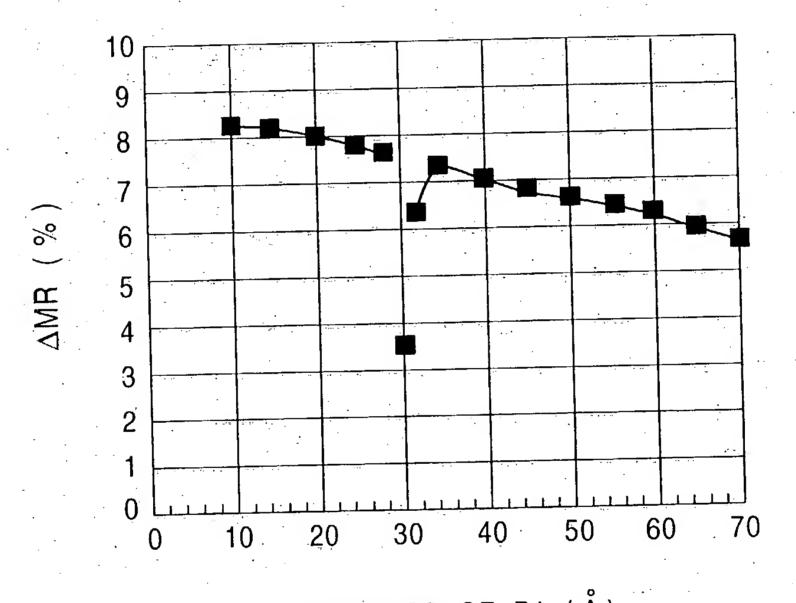


FIG. 16



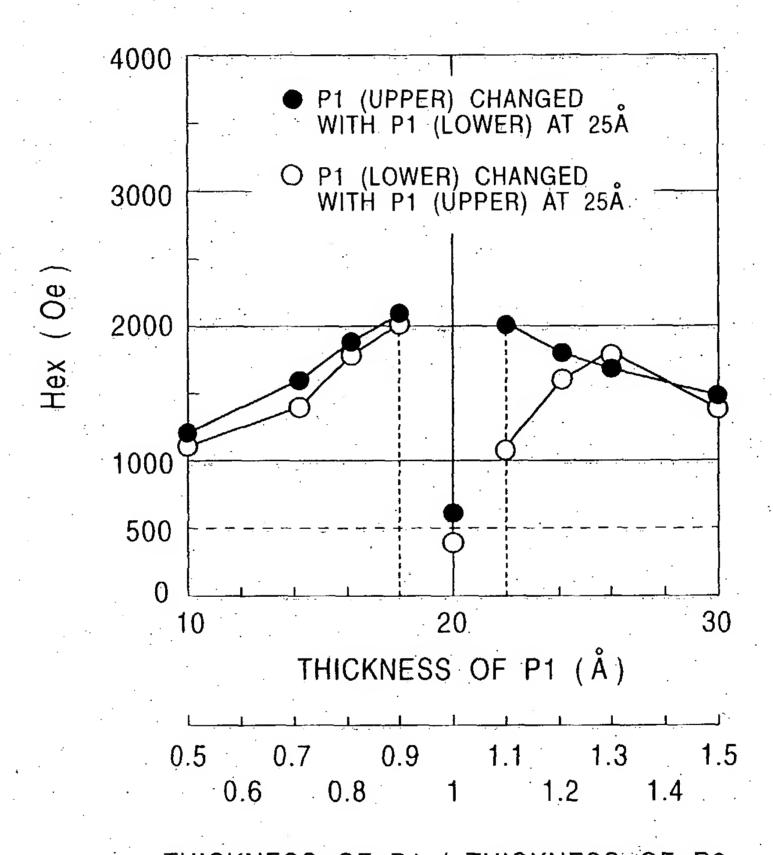
THICKNESS OF P1 / THICKNESS OF P2

FIG. 17



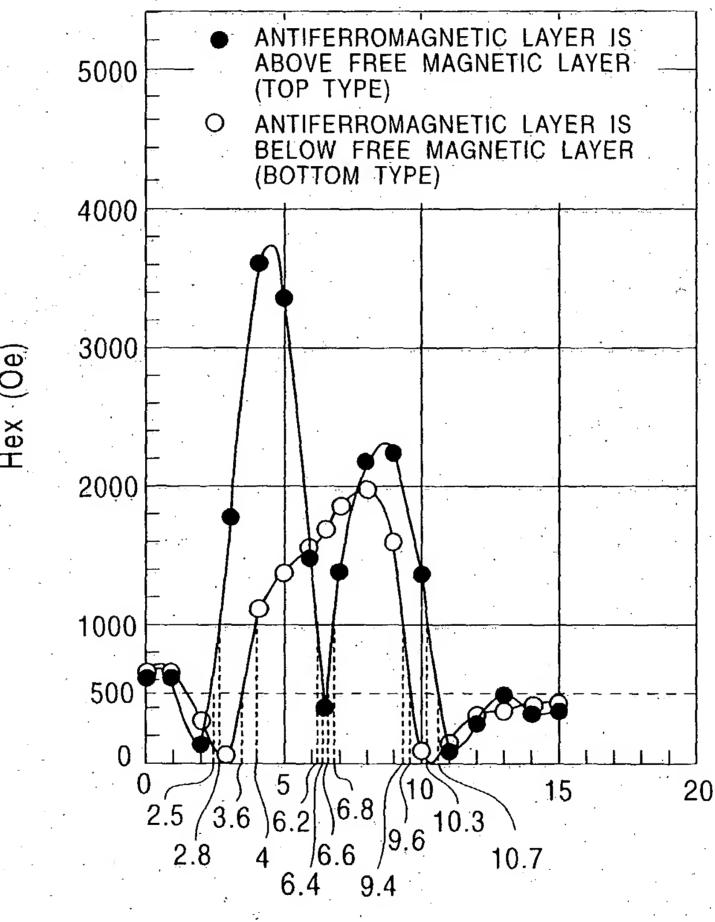
 $13 \angle 22$

FIG. 18



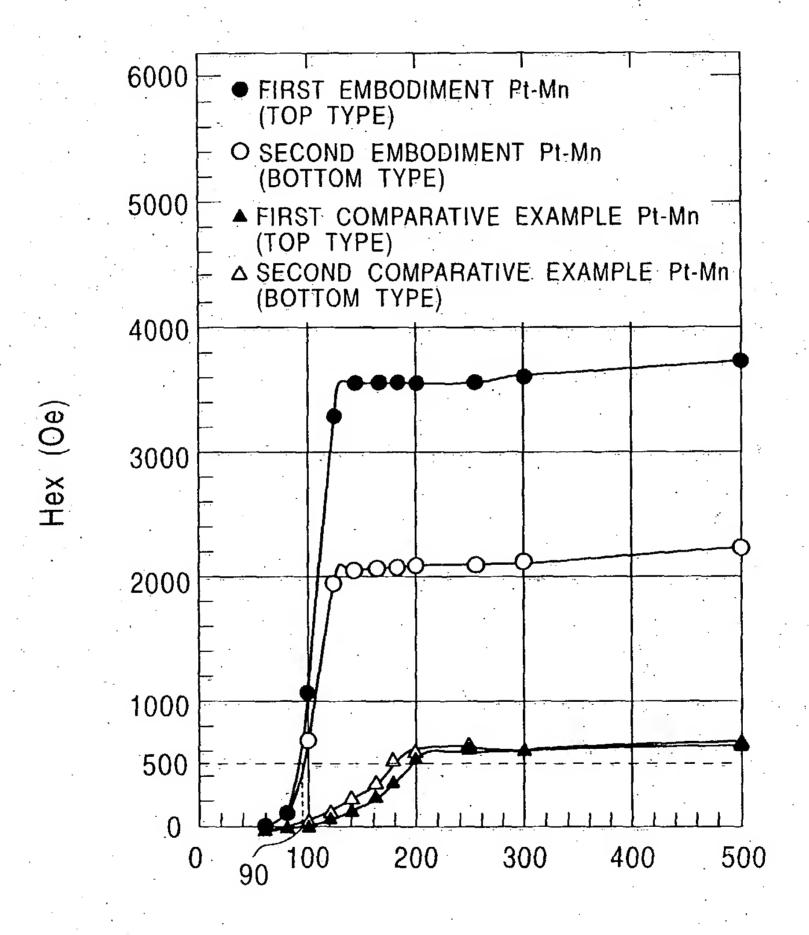
THICKNESS OF P1 / THICKNESS OF P2

FIG. 19



THICKNESS OF Ru (Å)

FIG. 20



THICKNESS OF Pt-Mn (Å)

FIG. 21

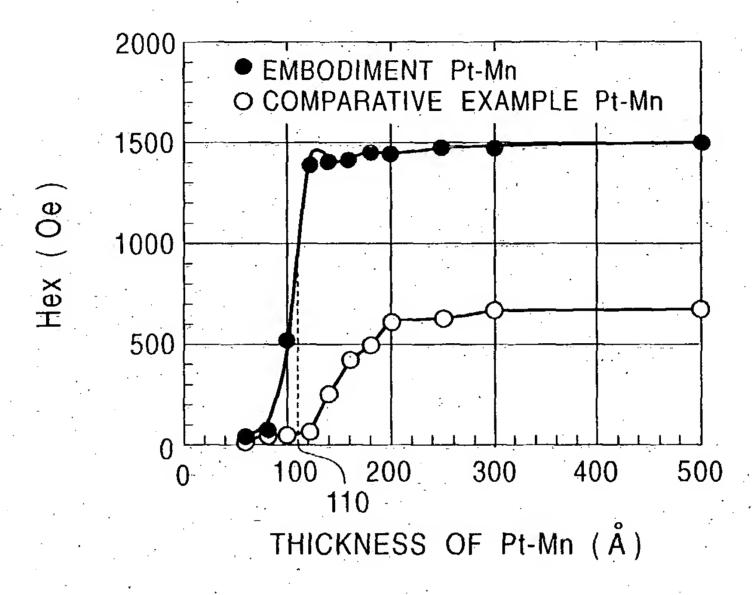
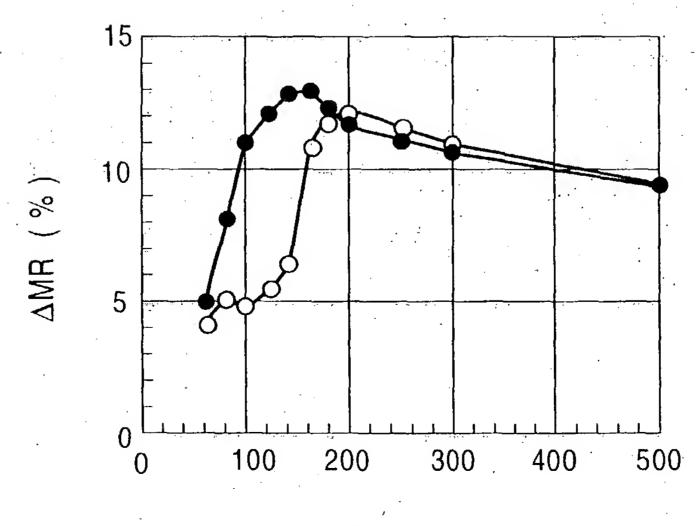
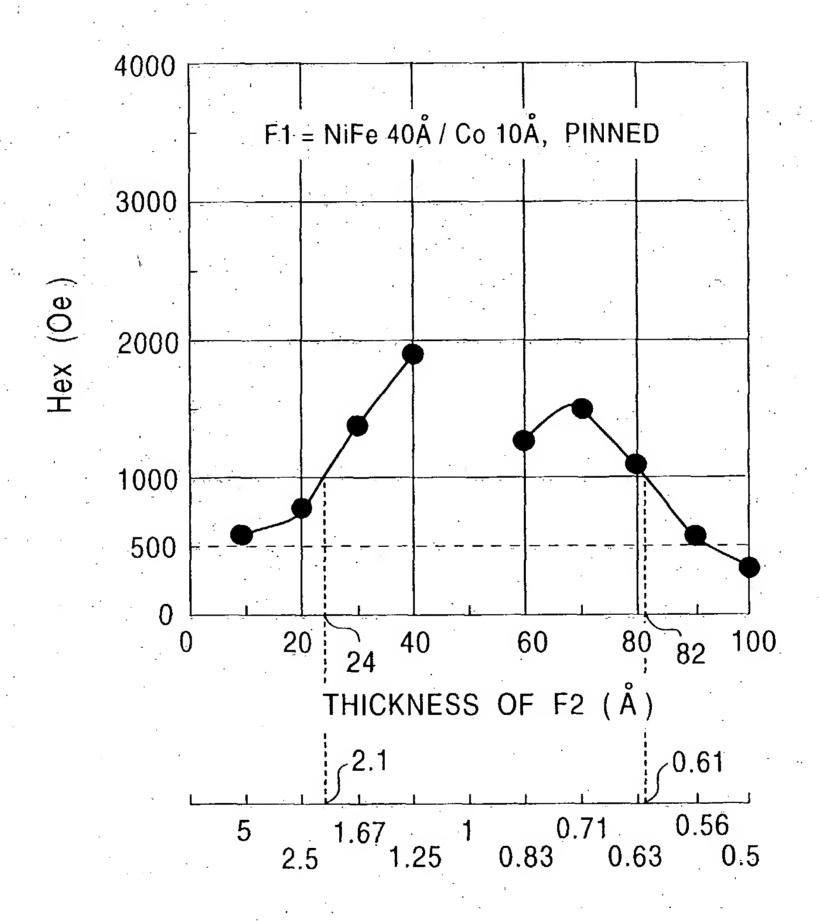


FIG. 22



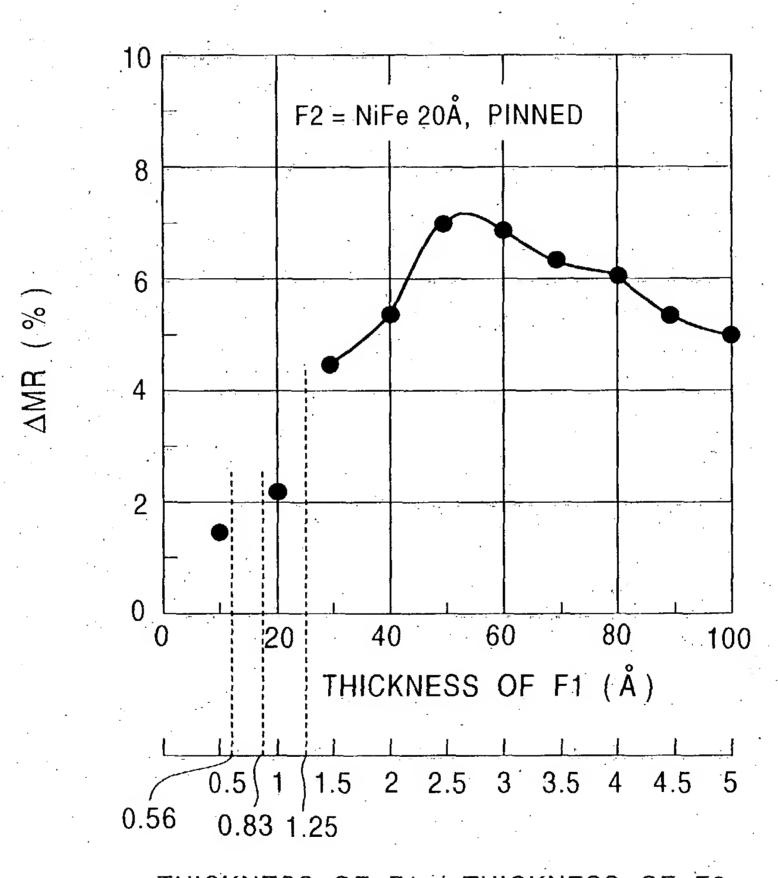
THICKNESS OF Pt-Mn (\mathring{A})

FIG. 23



THICKNESS OF F1 / THICKNESS OF F2

FIG. 24



THICKNESS OF F1 / THICKNESS OF F2

FIG. 25

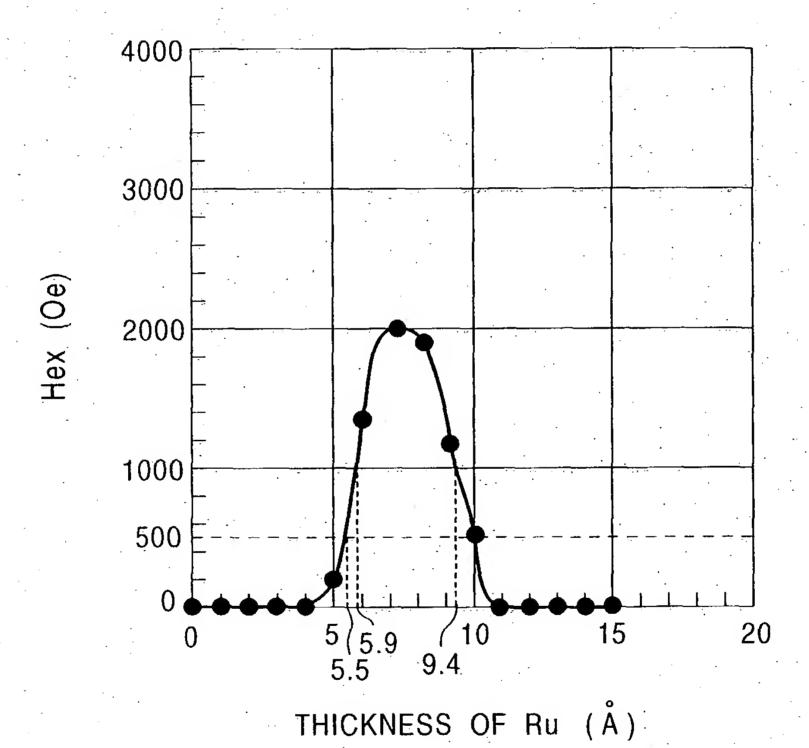
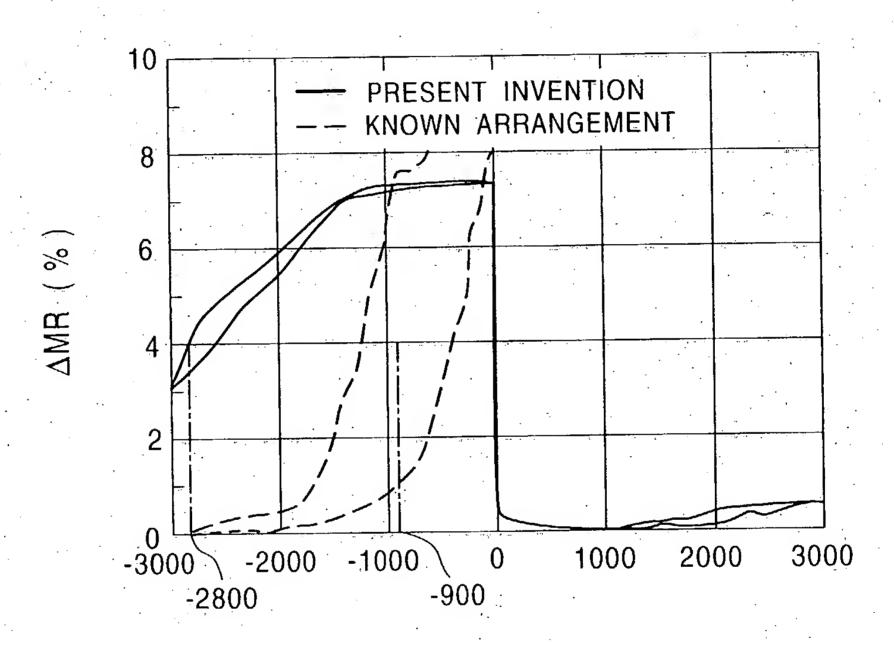


FIG. 26



EXTERNAL MAGNETIC FIELD (Oe)

FIG. 27

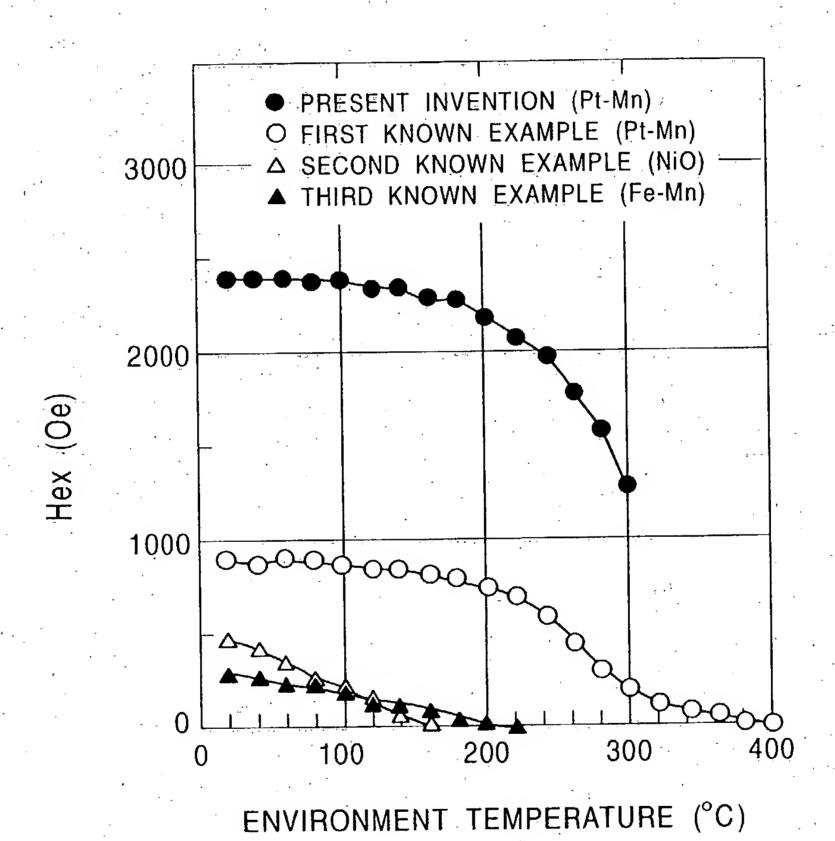


FIG. 28 PRIOR ART

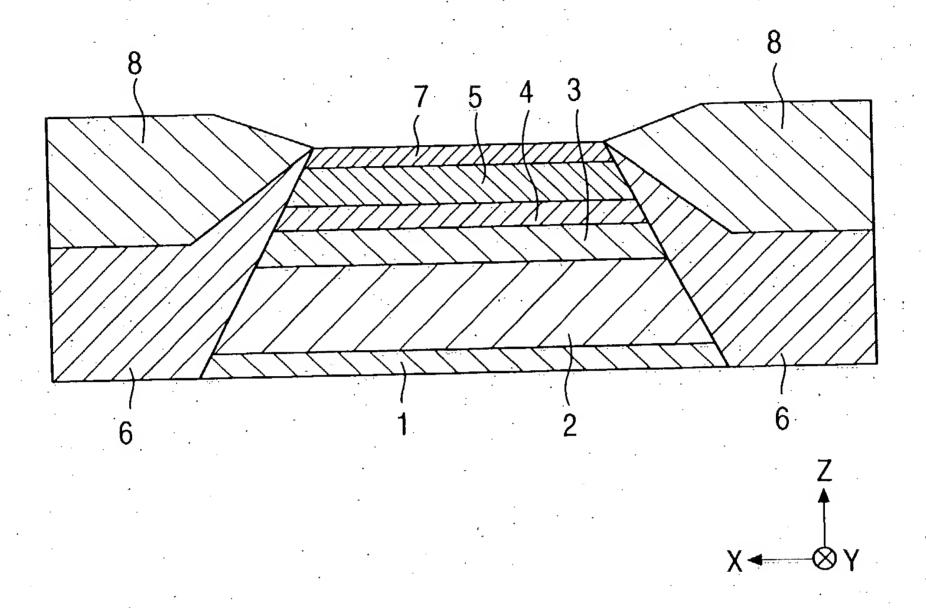


FIG. 29 PRIOR ART

